

Class XII

LABORATORY MANUAL

CHEMISTRY



LABORATORY MANUAL CHEMISTRY

Class XII

NCERT



Ncert Chemistry Lab Manual Class 12 Chromatography

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Ncert Chemistry Lab Manual Class 12 Chromatography:

Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-22

A Surface Chemistry

- 1 To prepare colloidal solution sol of starch
- 2 To prepare a colloidal solution of egg albumin
- 3 To prepare colloidal solution of gum
- 4 To prepare colloidal solution of aluminium hydroxide Al(OH)_3
- 5 To prepare colloidal solution of ferric hydroxide Fe(OH)_3
- 6 To prepare colloidal solution of arsenious sulphide As_2S_3
- 7 To purify a freshly prepared sol by dialysis
- 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions

Viva Voce B Chemical Kinetics

- 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid
- 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid
- 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions
- 4 To study the rate of reaction between potassium iodate KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicator

Viva Voce C Thermochemistry

- 1 Determine the enthalpy of dissolution of copper sulphate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ in water at Room temperature
- 2 To determine the enthalpy of neutralization of the reaction between HCl and NaOH
- 3 To determine enthalpy change during the interaction between acetone and chloroform

Viva Voce D Electrochemistry

- 1 To study the variation of cell potential in $\text{Zn}|\text{Zn}^{2+}||\text{Cu}^{2+}|\text{Cu}$ with change in concentration of electrolytes CuSO_4 or ZnSO_4 at room temperature

Viva Voce E Chromatography

- 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their R_f values
- 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their R_f values
- 3 To separate Co^{2+} and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their R_f values

Viva Voce F Preparation of Inorganic Compounds

- 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate
- 2 To prepare a pure sample of potash alum fitkari
- 3 Preparation of crystals of potassium ferric oxalate or potassium trioxalato ferrate III

Viva Voce G Preparation of Organic Compounds

- 1 Preparation of iodoform from ethyl alcohol or acetone
- 2 Preparation of acetanilide in laboratory
- 3 Preparation of *p*-Naphthol aniline dye
- 4 To prepare a pure sample of dibenzalacetone
- 5 To prepare a pure sample of *p*-nitro acetanilide

Viva Voce H Tests for the Functional Groups Present in Organic Compounds

Viva Voce I Study of Carbohydrates Fats and Proteins

- 1 To study simple reactions of carbohydrate
- 2 To study simple reactions of fats
- 3 To study simple reactions of proteins
- 4 To investigate presence of carbohydrates fats and proteins in food stuffs

Viva Voce J Volumetric Analysis

- 1 To prepare 250 ml of $M/10$ solution of oxalic acid
- 2 To prepare 250 ml of $M/10$ solution of ferrous ammonium sulphate
- 3 Prepare $M/20$ solution of oxalic acid with its help find out the molarity and strength of the given solution of potassium permanganate
- 4 Prepare $M/20$ solution of Mohr's salt using this solution determine the molarity and strength of potassium permanganate solution

Viva Voce K Qualitative Analysis

Viva Voce

INVESTIGATORY PROJECTS

- 1 To study the presence of oxalate ions in guava fruit at different stages of ripening
- 2 To study the quantity of caseine present in different samples of milk
- 3 Preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc
- 4 To study the effect of potassium bisulphite as food preservative at various concentrations
- 5 To study the digestion of starch by salivary amylase and the effect of pH and temperature on it
- 6 To study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice
- 7 To extract essential oils present in saunf aniseed ajwain corum illaichi cardomom
- 8 To detect the presence of adulteration in fat oil and butter
- 9 To investigate the presence of NO_2 in brinjal

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International Books in Print, 1990 *Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal* Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE, NCERT and Adopted by Various State Education Boards.

A. Basic Laboratory Techniques

1. To cut a glass tube or glass rod
2. To bend the glass rod at an angle
3. To draw a glass jet from a glass tube
4. To bore a cork and fit a glass tube into it

B. Characterisation and Purification of Chemical Substances

1. To determine the melting point of the given unknown organic compound and its identification (simple laboratory technique)
2. To determine the boiling point of a given liquid when available in small quantity (simple laboratory method)
3. To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample
4. To prepare the pure crystals of copper sulphate from the given crude sample
5. To prepare pure crystals of benzoic acid from a given impure sample

C. Measurement of pH Values

1. To determine the pH value of vegetable juices, fruit juices, tap water and washing soda by using universal pH paper
2. To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration
3. To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
4. To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH
5. To determine the change in pH

value of weak base NH_4OH in presence of a common ion NH_4^+ D Chemical Equilibrium 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions 2 To study the shift in equilibrium between Co^{2+} and Cl^- ions by changing the concentrations of either of the ions E Quantitative Analysis 1 To prepare M 10 oxalic acid solution by direct weighing method 2 To prepare M 10 solution of sodium carbonate by direct weighing method 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution F Qualitative Analysis 1 Analysis of Anions 2 Analysis of Cations G Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test INVESTIGATORY PROJECTS A Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions B Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 To purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method C Water Analysis 1 To test the hardness of different water samples D Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap E Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper F Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Log Antilog Table

Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-22 A Surface Chemistry 1 To prepare colloidal solution sol of starch 2 To prepare a colloidal solution of egg albumin 3 To prepare colloidal solution of gum 4 To prepare colloidal solution of aluminium hydroxide $\text{Al}(\text{OH})_3$ 5 To prepare colloidal solution of ferric hydroxide $\text{Fe}(\text{OH})_3$ 6 To prepare colloidal solution of arsenious sulphide As_2S_3 7 To purify a freshly prepared sol by dialysis 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions Viva Voce B Chemical Kinetics 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions 4 To study the rate of reaction between potassium iodate KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicator Viva Voce C Thermochemistry 1

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Instrumental Liquid Chromatography N.A. Parris, 2000-04-01 Instrumental Liquid Chromatography **Chemistry Lab Manual Class XII | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum.** Mr. Rohit Manglik, Mr. Kaushalesh Dwivedi, 2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical

knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable Laboratory Chromatography Guide Angelo Talamona,2005 *NCERT Solutions Chemistry 12th* Geeta Rastogi,2014-01-01 10 in One Study Package for CBSE Chemistry Class 12 with 5 Model Papers Disha Experts,2017-08-29 10 in ONE CBSE Study Package Chemistry class 12 with 5 Sample Papers is another innovative initiative from Disha Publication This book provides the excellent approach to Master the subject The book has 10 key ingredients that will help you achieve success 1 Chapter Utility Score 2 All India Board 2017 Solved Paper 3 Exhaustive theory based on the syllabus of NCERT books along with the concept maps for the bird s eye view of the chapter 4 NCERT Solutions NCERT Exercise Questions 5 VSA SA LA Questions Sufficient Practice Questions divided into VSA SA LA type Numericals are also included wherever required 6 Past Years Questions Past 10 year Questions of Board Exams are also included 7 HOTS Exemplar Value based Questions High Order Thinking Skill Based Moral Value Based and Selective NCERT Exemplar Questions included 8 Chapter Test A 15 marks test of 30 min to assess your preparation in each chapter 9 Important Formulae Terms and Definitions 10 Full syllabus Sample Papers 5 papers with detailed solutions designed exactly on the latest pattern of CBSE Board Chemistry : Textbook For Class Xii NCERT,2007-01-01 *Practical Liquid Chromatography* S. G. Perry,2014-01-15 *EduGorilla's CBSE Class 12th Chemistry Lab Manual | 2024 Edition | A Well Illustrated* EduGorilla Prep Experts, **Chapter-wise NCERT + Exemplar + Past 11 Years Solutions for CBSE Class 12 Chemistry 5th Edition** Disha Experts, The book provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students NCERT Book Exemplar Book Past 10 Years Solutions for CBSE Class 12 The 5th Edition of the book is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter exercises Section 2 Past Year Questions of Past 10 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems **Practical Liquid Chromatography** S. G. Perry,Roger Amos,P. I. Brewer,1973-10 *NCERT Solutions Chemistry Class 12th* Geeta Rastogi,2022-12-16 NCERT books are not only considered as best study materials for CBSE board exams but also for some of the highly competitive exams such as NEET JEE etc The NCERT SOLUTIONS series for class VI XII offers a complete package of the syllabus along with well explained chapters of every subject in a concise way Here s reintroducing you to the freshly updated edition of the NCERT Exercises Solutions series NCERT SOLUTIONS CHEMISTRY which has been consciously designed for class XII students This book provides a complete solution to all the Chemistry chapter exercises of the NCERT book along with detailed explanations to easily learn concepts and enhance thinking and learning abilities To get a quick recap of each concept two Additional features that is Thinking Process Notes are also included in each chapter This book also covers solutions to selected problems of NCERT Exemplar Problems A comprehensive Exercise solution book of NCERT Provides a complete solution to NCERT Chemistry

Detailed Explanations to understand each concept easily Additional features include Thinking Process Notes Covers solutions of NCERT Exemplar Problems TABLE OF CONTENT The Solid State Solutions Electrochemistry Chemical Kinetics Surface Chemistry Process of Isolation of Elements The p Block Elements The d and f block Elements Coordination Compounds Haloalkanes and Haloarenes Alcohols Phenols Ethers Aldehydes Ketones Carboxylic Acids Amines Biomolecules Polymers Chemistry in Everyday Life **Chemistry : Textbook For Class Xii** ,2007-01-01 Errorless NCERT Solutions with 100% Reasoning for Class 12 Chemistry Disha Experts,2019-06-03 The NCERT books are one of the most important resources for every class 12 student The book Errorless NCERT Solutions with 100% Reasoning Class 12 Chemistry is exclusively written to provide best quality solutions for NCERT Chemistry class 12 The Unique Selling Point of this book lies in its quality of solutions which provides 100% Reasoning which is missing in Most of the Books and are Errorless A lot of solution provide Notes immediately after the Solutions which provides Important Tips Shortcuts Alternative Methods Points to Remember etc This book provides Quick Revision of the concepts involved along with Important formulas and definitions in each chapter which would act as a refresher This is followed by the detailed solutions Question by Question of all the questions exercises provided in the NCERT book The solutions have been designed in such a manner Step by Step that it would bring 100% Concept Clarity for the student The solutions are Complete each and every question is solved Inflow exactly on the flow of questions in the NCERT book and Errorless

Embracing the Song of Term: An Psychological Symphony within **Ncert Chemistry Lab Manual Class 12 Chromatography**

In a global taken by monitors and the ceaseless chatter of instant conversation, the melodic beauty and emotional symphony developed by the prepared term usually fade into the backdrop, eclipsed by the relentless sound and interruptions that permeate our lives. Nevertheless, situated within the pages of **Ncert Chemistry Lab Manual Class 12 Chromatography** a marvelous literary prize overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this charming masterpiece conducts visitors on a psychological journey, well unraveling the hidden melodies and profound impact resonating within each cautiously constructed phrase. Within the depths of this poignant evaluation, we shall examine the book is main harmonies, analyze its enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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